

## Solar irrigation initiatives in Togo

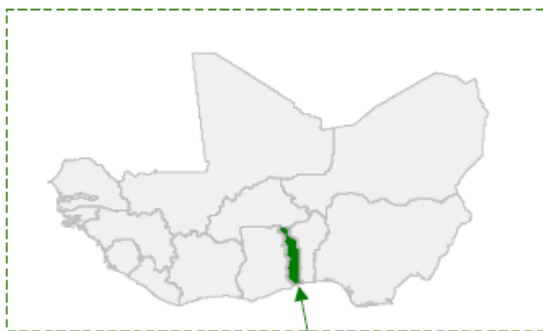


# CONTENT

- 1 Brief presentation of Togo
- 2 Environmental background
- 3 Government initiatives w.r.t solar irrigation pumps
- 4 Expected impacts of Government initiatives

# 1. Brief presentation of Togo

**TOGO**



Location : West Africa

Area : 56 600 km<sup>2</sup>

Capital : Lome

Boundaries : Burkina-Faso, Bénin, Ghana and Atlantic Ocean

Territorial Administration: 5 regions subdivided into 39 local government

Population : **7.9** million of which 60% in rural areas

Member of regional institutions : Economic Community of West African States (ECOWAS), West African Economic and Monetary Union (UEMOA)

## 2. Environmental background

- ❑ Climate change is a major concern in Togo. On the one hand, there is the phenomenon of erosion in unprotected coastal areas and on the other the vulnerability to climatic hazards.
- ❑ The scarcity of wood and biomass resources; the reduction in the supply of ecological services from forests leading not only to land degradation, a loss of biodiversity but also to the drying up of water bodies and the regression of wetlands, etc.
- ❑ The late arrival and irregularity of the rains in particular have affected the agricultural sector, one of the most important sectors in Togo which contribute about 42% to the gross domestic product (GDP) of the country. The contribution of this sector to economic growth fell sharply between 2014 and 2015.

*Farmers in Togo rely largely on rainfall to irrigate their crops. But as the population grows and with the adverse effects of climate change, farmers need an alternative to irrigate their crops and meet the growing demand for food.*

## 2. Environmental background

- In light of these challenges, Togo made strong commitments to contribute to the achievement of the objectives of the UNFCCC to limit temperature rise to 2 ° C by 2030.
- In its NDC submitted to the UNFCCC in September 2015, Togo stated the following measures to reduce the emission of green house gases :
  - *Strengthen actions in favor of energy efficiency and low-carbon technologies;*
  - *Promote integrated and sustainable water resources management;*
  - *Strengthen the resilience of agricultural production systems;*
  - *Strengthen the capacity of human settlements (buildings and cities) to adapt to climate change; and*
  - *Protecting the coastal zone.*

**In line with this commitments, the Togolese government is undertaking numerous initiatives; among them are the integration of renewables energies in the energy mix of the country (which extends to the Agricultural sector)**

### 3. Government initiatives w.r.t solar irrigation pumps



With funding from the African development Bank, the Government of Togo via the Ministry of Mines and Energies have developed a program to deploy 3000 solar pumping systems for irrigation based on a reliable distribution model for solar pumps with the support of the private sector and the Ministry of Agriculture.

- Funding currently available will allow the acquisition of approximately 600 pumps in the first year. A **REVOLVING** mechanism which will be put in place together with the implicated stakeholders will make it possible to finance new pumps until the target is reached.

### 3. Government initiatives w.r.t solar irrigation pumps



**The Ministry of Agriculture in partnership with a private operator BBOXX launched a program in 2020 to distribute 5000 solar pumps to agricultural farmers.**

- The pumps distributed in the framework of this program benefit from a 50% subsidy from the Government of Togo.
- To date 3,024 agricultural farmers have benefited from the program.



**The German Corporation (GIZ) is financially and technically assisting the Government of Togo in a project denoted "PESoP" (Promotion of Productive-Use Solar equipment). Solar irrigation pumps is one of the equipment promoted in this project.**

- The project is based on « RBF » mechanism, where private operators receive a financial incentive after installing a solar pump for irrigation.

### 3. Government initiatives w.r.t solar irrigation pumps



**Togo will be benefiting from a USD 50,000 grant from the ISA to implement a solar pump irrigation project.**

- The grant agreement has been signed between the Republic of Togo and ISA.
- Project implementation on the ground will be starting in the first quarter of this year.



## 4. Expected impacts of Government initiatives

- ☐ **Mitigation:** Contribute to reduce climate change and its impacts through the reduction of CO2 emissions;
- ☐ **Adaptation:** Sustainable agricultural practices and production through the deployment of solar-powered irrigation. Improve farmers' resilience to changes in rainfall patterns which is as a result of climate change;
- ☐ Contribute to poverty eradication;
- ☐ Contribute to hunger and food shortage eradication;
- ☐ Job creation
- ☐ Improve the economy of the country

# THANK YOU



## Contact

14 BP 128 Lomé, Togo

Tél : (00 228) 22 21 21 44

(00 228) 22 21 21 66

[info@at2er.tg](mailto:info@at2er.tg) | [secretariat@at2er.tg](mailto:secretariat@at2er.tg)

[www.at2er.tg](http://www.at2er.tg)